

## SEQUENCE LISTING

29/8/99 17

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

HILLMAN, Jennifer L.

YUE, Henry

Y. Tom Tang

AZIMZAI, Yalda

&lt;120&gt; CANCER ASSOCIATED PROTEINS

&lt;130&gt; PF-0661 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

&lt;150&gt; 09/236,205

&lt;151&gt; 1999-01-22

&lt;160&gt; 9

&lt;170&gt; PERL Program

210&gt; 1

&lt;211&gt; 465

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1518859CD1

&lt;400&gt; 1

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Phe Leu Thr Pro Ala Val Thr Pro Thr Trp Tyr Ala Gly Ser Gly			
20	25		30
Tyr Tyr Pro Asp Glu Ser Tyr Asn Glu Val Tyr Ala Glu Glu Val			
35	40		45
Pro Gln Ala Pro Ala Leu Asp Tyr Arg Val Pro Arg Trp Cys Tyr			
50	55		60
Thr Leu Asn Ile Gln Asp Gly Glu Ala Thr Cys Tyr Ser Pro Lys			
65	70		75
Gly Gly Asn Tyr His Ser Ser Leu Gly Thr Arg Cys Glu Leu Ser			
80	85		90
Cys Asp Arg Gly Phe Arg Leu Ile Gly Arg Arg Ser Val Gln Cys			
95	100		105
Leu Pro Ser Arg Arg Trp Ser Gly Thr Ala Tyr Cys Arg Gln Met			
110	115		120
Arg Cys His Ala Leu Pro Phe Ile Thr Ser Gly Thr Tyr Thr Cys			
125	130		135
Thr Asn Gly Val Leu Leu Asp Ser Arg Cys Asp Tyr Ser Cys Ser			
140	145		150
Ser Gly Tyr His Leu Glu Gly Asp Arg Ser Arg Ile Cys Met Glu			
155	160		165

Lεu Trp Arg Lεu Pro Glu Glu Lεu Lεu Lεu Ile Cys Ser Tyr  
 Met Ala Ala Arg Glu Ser Ala Ala Arg Pro Ala Glu Pro Ala  
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<223> Incyte ID No: 2616269CD1  
 <221> misc\_feature  
 <220>

<213> Homo sapiens  
 <212> PRT  
 <211> 400  
 <210> 2

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 Thr Pro Glu Ile Phe Thr Phe Ile Asp Asp Tyr Lεu Lεu Ser  
 Ile Asp Lys Glu Ile Asp Arg Asp Tyr Met Glu Pro Val  
 Arg Glu Phe Glu Arg Lεu Thr Arg Ser Tyr Phe Asn Met Val Lεu  
 Arg Ile Arg Glu Glu Lεu Ser Ala Asn Ile Glu Glu Lεu  
 Val Thr Ile Ile Glu Lεu Val Glu Pro Pro Glu Glu Val Glu  
 Ile Ser Met Lεu Glu Glu Ser Thr Cys Glu Lεu Asp Lεu Arg His  
 Ile Ile Ser Ala Pro Asp Pro Ser Asn Arg Tyr Tyr Lys Met Glu  
 Ala Ala Glu Lεu Asp Glu Phe Tyr Glu Lys Glu Arg Lεu Lεu  
 Pro Pro Ile Cys Ala Pro Met Lys Ile Asn Val Asn Val Ser  
 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465

Ala Thr Cys Glu Tyr His Cys Asp Glu Tyr Asp Arg Glu Glu  
 Glu His Glu Tyr Lεu Thr Cys Thr Ser Ala Glu Asp Asn Tyr Glu  
 Ile Val Lys Val Val Arg Arg Cys Pro Thr Lεu Lys Pro  
 Tyr Thr Ala Tyr Asp Arg Ala Tyr Asn Arg Ala Ser Cys Lys Phe  
 Pro Glu Pro Glu Ser His Phe Pro Glu Glu His Val Ile Arg  
 Lys Asp Ser Ala Asp Glu Thr Ile Thr Arg Val Thr Lεu Arg Glu  
 Pro Glu Lys Lεu Thr Ala Arg Val Tyr Trp Asp Pro Lεu Val  
 Pro Pro Lys Ile Arg Cys Pro His Ser Arg Glu Lys Met Ala Glu  
 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465

20	25	30
Leu Asp Met Arg Ala Leu Gly Arg Leu Ala Gln Val Cys Arg Trp		
35	40	45
Leu Arg Arg Phe Thr Ser Cys Asp Leu Leu Trp Arg Arg Ile Ala		
50	55	60
Arg Ala Ser Leu Asn Ser Gly Phe Thr Arg Leu Gly Thr Asp Leu		
65	70	75
Met Thr Ser Val Pro Val Lys Glu Arg Val Lys Val Ser Gln Asn		
80	85	90
Trp Arg Leu Gly Arg Cys Arg Glu Gly Ile Leu Leu Lys Trp Arg		
95	100	105
Cys Ser Gln Met Pro Trp Met Gln Leu Glu Asp Asp Ser Leu Tyr		
110	115	120
Ile Ser Gln Ala Asn Phe Ile Leu Ala Tyr Gln Phe Arg Pro Asp		
125	130	135
Gly Ala Ser Leu Asn Arg Arg Pro Leu Gly Val Phe Ala Gly His		
140	145	150
Asp Glu Asp Val Cys His Phe Val Leu Ala Asn Ser His Ile Val		
155	160	165
Ser Ala Gly Gly Asp Gly Lys Ile Gly Ile His Lys Ile His Ser		
170	175	180
Thr Phe Thr Val Lys Tyr Ser Ala His Glu Gln Glu Val Asn Cys		
185	190	195
Val Asp Cys Lys Gly Gly Ile Ile Val Ser Gly Ser Arg Asp Arg		
200	205	210
Thr Ala Lys Val Trp Pro Leu Ala Ser Gly Arg Leu Gly Gln Cys		
215	220	225
Leu His Thr Ile Gln Thr Glu Asp Arg Val Trp Ser Ile Ala Ile		
230	235	240
Ser Pro Leu Leu Ser Ser Phe Val Thr Gly Thr Ala Cys Cys Gly		
245	250	255
His Phe Ser Pro Leu Arg Ile Trp Asp Leu Asn Ser Gly Gln Leu		
260	265	270
Met Thr His Leu Gly Ser Asp Phe Pro Pro Gly Ala Gly Val Leu		
275	280	285
Asp Val Met Tyr Glu Ser Pro Phe Thr Leu Leu Ser Cys Gly Tyr		
290	295	300
Asp Thr Tyr Val Arg Tyr Trp Asp Leu Arg Thr Ser Val Arg Lys		
305	310	315
Cys Val Met Glu Trp Glu Glu Pro His Asp Ser Thr Leu Tyr Cys		
320	325	330
Leu Gln Thr Asp Gly Asn His Leu Leu Ala Thr Gly Ser Ser Tyr		
335	340	345
Tyr Gly Val Val Arg Leu Trp Asp Arg Arg Gln Arg Ala Cys Leu		
350	355	360
His Ala Phe Pro Leu Thr Ser Thr Pro Leu Ser Ser Pro Val Tyr		
365	370	375
Cys Leu Arg Leu Thr Thr Lys His Leu Tyr Ala Ala Leu Ser Tyr		
380	385	390
Asn Leu His Val Leu Asp Phe Gln Asn Pro		
395	400	

&lt;210&gt; 3

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3117642CD1

&lt;400&gt; 3

Met	Gly	Phe	Leu	Arg	Arg	Leu	Ile	Tyr	Arg	Arg	Arg	Pro	Met	Ile
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Tyr	Val	Glu	Ser	Ser	Glu	Glu	Ser	Ser	Asp	Glu	Gln	Pro	Asp	Glu
										25				30
Val	Glu	Ser	Pro	Thr	Gln	Ser	Gln	Asp	Ser	Thr	Pro	Ala	Glu	Glu
									35		40			45
Arg	Glu	Asp	Glu	Gly	Ala	Ser	Ala	Ala	Gln	Gly	Gln	Glu	Pro	Glu
									50		55			60
Ala	Asp	Ser	Gln	Glu	Leu	Val	Gln	Pro	Lys	Thr	Gly	Cys	Glu	Leu
									65		70			75
Gly	Asp	Gly	Pro	Asp	Thr	Lys	Arg	Val	Cys	Leu	Arg	Asn	Glu	Glu
								80		85				90
Gln	Met	Lys	Leu	Pro	Ala	Glu	Gly	Pro	Glu	Pro	Glu	Ala	Asp	Ser
									95		100			105
Gln	Glu	Gln	Val	His	Pro	Lys	Thr	Gly	Cys	Glu	Arg	Gly	Asp	Gly
								110		115				120
Pro	Asp	Val	Gln	Glu	Leu	Gly	Leu	Pro	Asn	Pro	Glu	Glu	Val	Lys
								125		130				135
Thr	Pro	Glu	Asp	Glu	Gly	Gln	Ser	Gln	Pro					
								140		145				

&lt;210&gt; 4

&lt;211&gt; 2152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1518859CB1

&lt;400&gt; 4

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ttggcagatg	tggacgtcgt	aacatctggg	cagtgttaac	agaatcccgg	aggccgggac	180
agaccaggag	ccactcggtc	taggaatgtt	aaagtagaaag	gtttttcca	attgatgaga	240
ggagcagaga	ggaaggagaa	agaggaggag	agagaaaaag	ggcacaaaat	accataaaac	300
agatcccata	tttctgcttc	ccctcactt	tagaagttaa	ttgatggctg	acttctgaaa	360
gtcaactttcc	tttgccctgg	tacttcaggc	catatacatc	ttttcttgc	tccataatcc	420
tcccttcaa	ggatggccag	tcagctaact	caaagaggag	ctctcttct	gctgttcttc	480
ctaactccgg	cagtgacacc	aacatggtat	gcaggttctg	gctactatcc	ggatgaaagc	540
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tgcaggcaga	tgagatgcca	cgcactacca	ttcataacta	gtggcactta	cacctgcaca	840
aatggagtgc	ttcttgactc	tcgctgtgac	tacagctgtt	ccagtggcta	ccacctggaa	900

ggtgatcgca gccgaatctg catggaagat gggagatgga gtggaggcga gcctgtatgt 960  
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 gagaaaattga ctgctcgagt atactggac ccaccgttgg tgaaagattc tgctgtatgt 1080  
 accatcacca gggtgacact tcggggccct gagcctggct ctcactttcc cgaaggagag 1140  
 catgtgattc gttacactgc ctatgaccga gcctacaacc gggccagctg caagttcatt 1200  
 gtgaaagtac aagtgagacg ctgcccact ctgaaaacctc cgacgcacgg ctacctcacc 1260  
 tgcacctcag cgggggacaa ctatggtgcc acctgtaat accactgtga tggcggttat 1320  
 gatgccagg ggacaccctc cgggtctgt cagttcagcc gecagtgtc aggttccacca 1380  
 ccaatctgtg ctccatatgaa gattaacgtc aacgtcaact cagctgctgg tctcttgat 1440  
 caattctatg agaaacagcg actcctcatc atctcagtc ctgatccctc caaccgatat 1500  
 tataaaatgc agatctctat gctacagcaa tccacacgtg gactggattt gccgcattgt 1560  
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 gaaaagctcc tctagtttagc tgaaaactggg acctaataaa aggaggaaat gtttcccac 1920  
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 atccttttag gactgtgtaa tagttccct agaagctagg tagggactga ggacaggcct 2040  
 tggcagtgg gttggggta gaagttcttc cttdcctaac ccggccctc gcccagctct 2100  
 ccaaagtctt tcagaaaaat aaatcctaaa ttcaatgaaa aaaaaaaaaa aa 2152

<210> 5  
 <211> 1888  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2616269CB1

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 tcatactgctc ctacccctggac atgcggggcc tcggccgcct gcccaggtg tgccgctggc 180  
 tgcggcgctt caccagctgc gatctgcctc ggcgcggat agcccggcc tcgcctcaact 240  
 cccgcttcac gccgcgtccgc accgacactga tgaccagtgt cccagtgaag gaacgagtga 300  
 aggtgtctca gaactggaga ctggggcgct gccgagaggg gattctgctg aagtggagat 360  
 gcagtcagat gcccctggatg cagctagagg atgattctct gtacatatcc caggctaatt 420  
 tcatacctggc ctaccagttc cgtccagatg gtgccagctt gaatgcgtcg cctctggag 480  
 tctttgtgg gcatgatgag gacgtttgcc actttgtgt ggccaaactcg catattgtta 540  
 gtgcaggagg ggatgggaag attggcattc ataagattca cagcacccctc actgtcaagt 600  
 actcggctca tgaacaggag gtgaactgtg tggattgcaa agggggcattc attgtgatgt 660  
 gctccaggaga caggacggcc aagggtgtggc cttdggcctc agggccgtg gggcagtgct 720  
 tacacaccat ccagactgaa gaccgagttc ggtccattgc tatcagccca ttactcagct 780  
 cttttgtgac agggacggct tttgcgggc acttctcacc cctgagaatc tgggacctca 840  
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 cgtcgactcc cctcagcagc cctgtgtact gcctgcgtct caccaccaag catctctatg 1200  
 ctgcctgtc ttacaacctc cacgtccctgg attttcaaaa cccatgaccg tcagggccac 1260  
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ccctacactca ggctggctgt tgagacatgc tacaattttc attttgtaa aaataaaagct 1860  
tgattgttca cagaaaaaaaaaaaaaaa 1888

<210> 6  
<211> 650  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
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ctaagaagat taatctatcg gcgttagacca atgatctatg tagaatcttc tgaggagatcc 180
agtatgagc aacctgacga agtggaatca ccaactcaaa gtcaggattc tacacctgct 240
gaagagagag aggatgaggg agcatctgca gctcaagggc aggagcctga agctgtatgc 300
caggaactgg ttcagccaaa gactgggtgt gagcttggag atggctctga taccaagagg 360
gtgtgcctgc gaaatgaaga gcagatggaa ctgccccgcag aagggccaga gcctgaagcg 420
gatagccagg aacagggttca cccgaagact ggtgtgagc gcggagatgg tcctgtatgc 480
caggagttgg gcctgccaaa tccagaggag gtggaaaacac ctgaggaaga tgaagggcaa 540
tcacagcctt aaaagaagac acgctgaaat gggtcaggct gtcctgtgt tggaaatttg 600
accattaaaa ttctcccaat aaagctttac agccttctgc aaaaaaaaaaa 650
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<210> 7  
<211> 464  
<212> PRT  
<213> Rattus norvegicus

<300>  
<308> GenBank ID No: q1345423

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Leu Leu Leu Leu Ala Leu Leu His Val Pro Pro Ser Gln Gly
      20          25          30
Phe Pro Gly Ser Gly Asp Ser Pro Leu Glu Asp Asp Gly Val Trp
      35          40          45
Ser Ser His Ser Leu Tyr Lys Asp Thr Pro Trp Cys Ser Pro Ile
      50          55          60
Lys Val Lys Tyr Gly Asp Val Tyr Cys Arg Ala Pro Pro Gly Gly
      65          70          75
Tyr Tyr Lys Thr Ala Leu Gly Thr Arg Cys Asp Ile Arg Cys Arg

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80	85	90
Lys Gly Tyr Glu Leu His	Gly Ser Ser Gln	Leu Val Cys Gln
95	100	Ser 105
Asn Arg Arg Trp Ser Asp	Lys Val Ile Cys Lys Gln	Lys Arg Cys
110	115	120
Pro Thr Leu Thr Met Pro	Ala Asn Gly Gly Phe	Lys Cys Val Asp
125	130	135
Gly Ala Tyr Phe Asn Ser	Arg Cys Glu Tyr Tyr	Cys Ser Pro Gly
140	145	150
Tyr Thr Leu Lys Gly Glu	Arg Thr Val Cys Met Asp	Asn Lys
155	160	165
Ala Trp Ser Gly Arg Pro	Ala Ser Cys Val Asp	Met Glu Pro Pro
170	175	180
Arg Ile Lys Cys Pro Ser	Val Lys Glu Arg Ile	Ala Glu Pro Asn
185	190	195
Lys Leu Thr Val Arg Val	Ser Trp Glu Thr Pro	Glu Arg Asp
200	205	210
Thr Ala Asp Gly Ile Leu	Thr Asp Val Ile Leu	Arg Gly Leu Pro
215	220	225
Pro Gly Ser Asn Phe Pro	Glu Gly Asp His Lys	Ile Glu Tyr Thr
230	235	240
Val Tyr Asp Arg Ala Glu	Asn Lys Gly Thr Cys	Lys Phe Arg Val
245	250	255
Lys Val Arg Val Arg Arg	Cys Gly Lys Leu Asn	Ala Pro Glu Asn
260	265	270
Gly Tyr Met Lys Cys Ser	Ser Asp Gly Asp Asn	Tyr Gly Ala Thr
275	280	285
Cys Glu Phe Ser Cys Ile	Gly Gly Tyr Glu Leu	Gln Gly Ser Pro
290	295	300
Ala Arg Val Cys Gln Ser	Asn Leu Ala Trp Ser	Gly Thr Glu Pro
305	310	315
Ser Cys Ala Ala Met Asn	Val Asn Val Gly Val	Arg Thr Ala Ala
320	325	330
Ala Leu Leu Asp Gln Phe	Tyr Glu Lys Arg Arg	Leu Leu Ile Val
335	340	345
Ser Thr Pro Thr Ala Arg	Asn Leu Leu Tyr Arg	Leu Gln Leu Gly
350	355	360
Met Leu Gln Gln Ala Gln	Cys Gly Leu Asp Leu	Arg His Ile Thr
365	370	375
Val Val Glu Leu Val Gly	Val Phe Pro Thr Leu	Ile Gly Arg Ile
380	385	390
Arg Ala Lys Ile Met Pro	Pro Ala Leu Ala Leu	Gln Leu Arg Leu
395	400	405
Leu Leu Arg Ile Pro Leu	Tyr Ser Phe Ser Met	Val Leu Val Asp
410	415	420
Lys His Gly Met Asp Lys	Glu Arg Tyr Val Ser	Leu Val Thr Pro
425	430	435
Met Ala Leu Phe Asn Leu	Ile Asp Thr Phe Pro	Leu Arg Lys Glu
440	445	450
Glu Met Ile Leu Gln Ala	Glu Met Gly Gln Ser	Cys Asn Thr
455	460	

&lt;210&gt; 8

&lt;211&gt; 278

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;300&gt;

&lt;308&gt; GenBank ID No: g487348

&lt;400&gt; 8

Arg Gly Gly Ser Glu Gly Arg Gly Arg Glu Lys Arg Ala  
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Arg Gly Ala Arg Arg Lys Arg Lys Gln Gly Gly Arg Glu Ala Arg  
20 25 30  
Ala Ala Asp Gly Glu Gly Ser Gly Pro Gly Ala Glu Ala Gly  
35 40 45  
Ala Arg Thr Arg Pro Arg Glu Glu Ala Glu Gly Gly Ser Val  
50 55 60  
Glu Glu Gly Ala Arg Gly Ile Ile Lys Gly Asp Glu Gly Ser Val  
65 70 75  
Gly Ala Gly Lys Glu Ala Gln Gly Arg Lys Tyr Gly Lys Glu Glu  
80 85 90  
Trp Arg Val Arg Ala Arg Arg Glu Gly Ala Arg Pro Gly Arg  
95 100 105  
Val Gln Gly Gln Gly Gly Gln Val Trp Ala Tyr Ile Pro Gly Thr  
110 115 120  
Gly Ala Ala Met Ala Ala Ala Ala Arg Glu Glu Glu Glu Ala  
125 130 135  
Ala Arg Glu Ser Ala Ala Cys Pro Ala Ala Gly Pro Ala Leu Trp  
140 145 150  
Arg Leu Pro Glu Val Leu Leu Leu His Met Cys Ser Tyr Leu Asp  
155 160 165  
Met Arg Ala Leu Gly Arg Leu Ala Gln Val Tyr Arg Trp Leu Trp  
170 175 180  
His Phe Thr Asn Cys Asp Leu Leu Arg Arg Gln Ile Ala Trp Ala  
185 190 195  
Ser Leu Asn Ser Gly Phe Thr Arg Leu Gly Thr Asn Leu Met Thr  
200 205 210  
Ser Val Pro Val Lys Val Ser Gln Asn Trp Ile Val Gly Cys Cys  
215 220 225  
Arg Glu Gly Ile Leu Leu Lys Trp Arg Cys Ser Gln Met Pro Trp  
230 235 240  
Met Gln Leu Glu Asp Asp Ala Leu Tyr Ile Ser Gln Ala Asn Phe  
245 250 255  
Ile Leu Ala Tyr Gln Phe Arg Pro Asp Gly Ala Ser Leu Asn Arg  
260 265 270  
Gln Pro Leu Gly Val Cys Trp Ala  
275

&lt;210&gt; 9

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;300&gt;

&lt;308&gt; GenBank ID No: g3511023

&lt;400&gt; 9

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20 25 30  
Phe Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro  
35 40 45  
Ala Thr Gln Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp  
50 55 60  
Glu Gly Ala Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser  
65 70 75  
Gln Glu Gln Gly His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly  
80 85 90  
Pro Asp Gly Gln Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys  
95 100 105  
Thr Pro Glu Glu Gly Glu Lys Gln Ser Gln Cys  
110 115